

delivering airflow from said inlet tube collector end to said central outlet tube;

each collector end comprising a plurality of sails located adjacent to one another, a bottom end of each said individual sail extending along a curved boom; and the generating device further including a turbine in the outlet tube narrowed center to be driven by the airflow, and a mechanism for reducing the area of the sail presented to the ambient airflow in response to a predetermined load on the sail.

35. A wind driven power generating device to be driven by an airflow, the device comprising:

a tube cluster comprising

a central outlet tube having a narrowed center for channeling an upward flowing airflow;

a plurality of inlet tubes;

each inlet tube being defined by a cylindrical wall;

each inlet tube further having a collector end located at a distance from said central outlet tube, each inlet tube communicating with said central outlet tube for delivering airflow from said inlet tube collector end to said central outlet tube;

each collector end having a wind collector assembly comprising a plurality of sails located adjacent to one another, a bottom end of each said individual sail extending along a curved boom; and

the generating device further including a turbine in the outlet tube narrowed center to be driven by the airflow, each said wind collector assembly comprising.

a vertical mast;

a curved boom;

a flexible sail connected at its top end to the mast and at its bottom end to the curved boom;

a steering sail for orienting said wind collector assembly with respect to an ambient airflow;

a tensioner connected to said curved boom and to said bottom end of said sail whereby wind loads on said sail can be managed;

a spring-loaded drum; and

a wound cable affixed on one end to said bottom end of said sail, and affixed on another end to said drum, said drum providing constant tension on said sail.

36. A wind driven power generating device to be driven by an airflow, the device comprising:

a tube cluster comprising;

a central outlet tube having a narrowed center for channeling an upward flowing airflow;

a plurality of inlet tubes;

each inlet tube being defined by a cylindrical wall;

each inlet tube further having a collector end located at a distance from said central outlet tube, each inlet tube

communicating with said central outlet tube for
delivering airflow from said inlet tube collector end to
said central outlet tube;

each collector end having a wind collector assembly comprising

a vertical mast;

a curved boom; and

a flexible collector sail connected at its top end to the mast and at its
bottom end to the curved boom;

a mechanism for reducing the area of the collector sail presented to the
ambient wind airflow in response to a predetermined load
on the sail;

a steering sail for orienting said wind collector assembly with
respect to an ambient overfow;

and the generating device further including

a turbine in the outlet tube narrowed center to be driven by
the airflow;

37. A wind driven power generating device to be driven by an airflow, the
device comprising:

a tube cluster comprising:

a central outlet tube having a narrowed
center for channeling an upward flowing airflow;

a plurality of inlet tubes;

each inlet tube further having a collector end located at a
distance from said central outlet tube, each inlet tube
communicating with said central outlet tube for

delivering airflow from said inlet tube collector end to said
central outlet tube;
each collector end having a wind collector assembly comprising a
vertical mast;
each said wind collector assembly comprising:
a vertical mast;
a curved boom; and
a plurality of collector sails, each collector sail connected at its
top end to the mast and at its bottom end to the
curved boom;
a steering sail for orienting said wind collector assembly with
respect to an ambient airflow.
a tensioner connected to said curved boom and to said bottom
end of said sail whereby wind loads on said sail can be
managed;
a spring-loaded, damped drum;
a wound cable affixed on one end to said bottom end of said sail,
and affixed on another end to said drum, said drum
providing constant tension on said sail;
the generating device further including a turbine in the
outlet tube narrowed center to be driven by the airflow.

Please amend claims 19 and 21 as follows:

19. The wind driven power generating device according to claim [17] 35

wherein said tensioner comprises:

a counterbalance weight;

a cable affixed to one end to said bottom end of said sail and
affixed on another end to said counterbalance weight, said
counterbalance weight providing a constant tension on
said sail.

21. The wind driven power generating device according to claim [18] 35,
wherein said mechanism for reducing the sail area comprises:

a collector loop slidably connected to said mast, said loop being
movable downwardly along said mast in response to a
predetermined load on said sail thereby substantially
reducing the area of said sail presented to the ambient
airflow.

A clean version of the entire set of claims now presented accompanies this
Amendment B as provided by 37 C.F.R. §1.121(c) (3).

REMARKS

This Amendment B responds to the Office Action mailed October 23, 2002.

In the Office Action mailed October 23, 2002, the Examiner correctly noted
that claims 2-13 have been withdrawn from consideration. He kindly indicated that
claims 18, 20, 21, 27, 29 and 30 are merely objected to, and will be allowed if
presented in appropriately independent form. This Amendment B presents all these
claims in the forms suggested by the Examiner. The remaining claims have been
cancelled in an effort to place this application in condition for allowance; their
rejection is respectfully traversed.